

# Welcome to PHYSICS!!!

H. Leslie Grebe  
Room C-244

SECA Physics  
Friday 20 June 2014

- \* Pick up:
  - whiteboard
  - eraser cloth
  - marker
  - paper to make note sheet

## Opening Activity:

\* Feel free to take as many notes as you would like to use on the test next period.



- \* Get ready for Jeopardy!
  - alone or with a partner
  - put team name on the top of the whiteboard you will use for answering

Sep 7-7:04 AM

## Class Business:

### Test:

- page of notes
- make sure to have something else to do
- will ask to mix up/ spread out seating
- talking and cell phones are off limits
- board will be erased / covered tomorrow

Sep 29-7:08 AM

### How we'll play Jeopardy!

- All teams answer ALL the questions on white boards
- No answer = lose points
- Answer with "???" is no risk: won't lose or gain points
- Everyone over 1000 points at the end gets candy!

### Note-taking Strategy:

- 1) Answer question on board FIRST!!!
- 2) Take some notes about the question on your page
- 3) Finish your notes quickly as soon as answer comes up

Nov 15-11:40 AM

# Test Time!!!

H. Leslie Grebe

- \* Get out your sheet of notes
- \* Mix it up - one student per table, then sit diagonally with someone you don't usually sit by
- \* On desk please only
  - pen/cil    - test    -note sheet
  - calculator    -beverage
- \* Please NO PEDs or talking while ANY tests are out

DO YOUR  
BEST &  
THEN GUESS  
IF NEEDED

Sep 7-7:04 AM

## Astronomy PowerPoint Project

- 25 point project over 3 periods (today, start of tomorrow)
- 1 topic from at least 3 **different** categories ( ~1 per period) or make me an offer...

Save it and send to [www.dropITto.ME/hlgrebe](http://www.dropITto.ME/hlgrebe)  
password = seca  
or email to: [hlgrebe@district287.org](mailto:hlgrebe@district287.org)

NO CUT & PASTE (EXCEPT PICS)  
— IN YOUR OWN WORDS

May 16-7:52 AM

## Welcome back...

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Opening Question:

Do you think light can travel faster in air or glass?

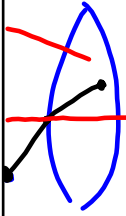
Sep 7-7:04 AM

## Toy car yesterday...

Which side does car move faster?

TABLE

SLOWER  
ON CLOTH



PERPENDICULAR

What angle(s) do we care about?

Angle of **incidence** = ray going "in" then  
to ray perpendicular

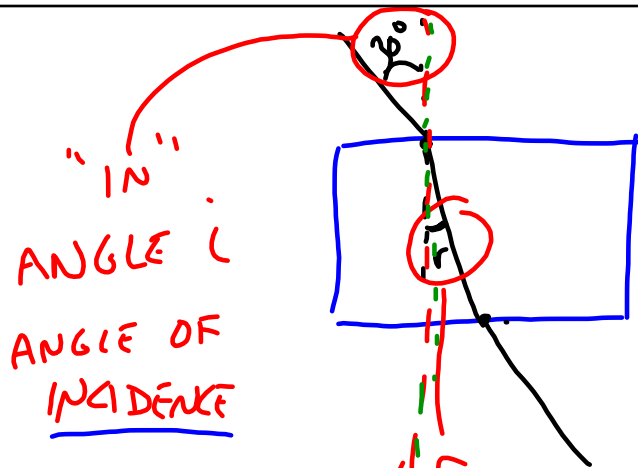
Angle of **refraction** = ray going "out" then  
to ray perpendicular

What is refraction? Why does it happen?

BEND

EDGE THAT HITS NEW  
MEDIUM FIRST SLOWS DOWN  
FIRST

May 7-7:10 AM



"IN"  
ANGLE  $i$   
ANGLE OF  
INCIDENCE

$\angle r$  = ANGLE OF REFRACTION

PERPENDICULAR

LIGHT GOES  
SLOWER IN  
GLASS

⇒ BENT TOWARD  
PERPENDICULAR

May 11-9:06 AM

For our "glass" (oops, it was plastic)

$$n \sim 1.4$$

which means light travels about 215,000,000 m/s in it  
instead of 300,000,000 m/s in air.

May 11-10:14 AM

### Our 3 Questions

- \* Most periods except test/project times
- \* 3 Questions on the topics of the class
- \* Main source of classwork points
- \* I am happy to give full credit when I have no concerns about someone giving or getting help with the answers.

You can't get your points if you don't have your **NAME!!!**

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

1) The angle between the ray going into the glass and the perpendicular line is called the angle of

- a) incidence
- b) reflection
- c) refraction
- d) introduction

2) While going through the glass, was the light bent TOWARDS the perpendicular line or AWAY?

BIGGER  $\angle$

SMALLER  $\angle$

3) This means that light travels \_\_\_\_\_ in glass than in air.  
(faster / slower)

Jun 18-11:20 AM